

## STATE OF TENNESSEE DEPARTMENT OF HEALTH **ENVIRONMENTAL LABORATORIES**

TDH: Lab Services JRL Lab Services - Jackson Regional Lab Jackson, TN 38301 731-426-0686

TDH: Lab Services KRL Lab Services - Knoxville Regional Lab Knoxville, TN 37920 865-549-5201

TDH: Lab Services NCL Lab Services - Nashville Central Lab Nashville, TN 37243 615-262-6300

Sent To:

**Greg Denton** 

TDEC-WPC

6th Floor, L & C Tower Annex

401 Church Street

Nashville, TN 37243-1534

Michael Atchley TDEC-WPC

Knoxville FO

3711 Middlebrook Pike Knoxville, TN 37921

Lab ID: K00002167

Knoxville Regional Laboratory

Sampling Agency: TDEC: Division of Water Pollution Control

**Billing Code:** 

327.34-20

This is to certify that the following results were determined using good laboratory pratices and in accordance with federal or state approved methodologies.

Analytical Supervisor

K00002167001

**Project Name:** 

Sample Description:

Emory River mile 12.1

Sampler Project Name: TVA Ash Spill

**Project Site No.:** 

**Station No.:** 

EMORY012.1RO

**Date/Time Collected:** 

02/17/2009 10:15

Sampler's Name: County:

Justin Fisher ROANE - 73

Sample Matrix:

Water

EFO: Sampling Agency: Knoxville

**Billing Code:** 

TDEC-WPC 327.34-20

Send Report To: Agency Invoiced:

TDEC-WPC **TDEC-WPC** 

**Priority Date:** 

Date/Time Received:

02/17/2009

15:05

Received By:

E McCrary

TEST: Alkalinity, Total	METHOD: EPA 310.2					
ANALYTE	RESULT	UNITS	MDL	MQL ANALYZED B	ANALYZED BY:	: DATE
Total Alkalinity	14	mg/L	3.8	10	M Chen	2/18/2009

**Field Determinations** 

**Dissolved Oxygen: 12.38** 

Chlorine, residual: Conductivity:

Temperature:

7.66

55

8.13

pH Units

uMHO

mg/L

**CFS** 

pH:

Other: Flow:

TEST: Hardness, Calcium	ME	METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	25	mg/L	0.7	1	P Leathers	2/18/2009

TEST: Residue, Settleable	METHOD: SM 2540F						
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
Settleable Residue	U	ml/L	0.10	0.10	M Chen	2/18/2009	

TEST: Residue, Suspended	METHOD: SM 2540D					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peeples	2/17/2009

J - Estimated value between MDL and MQL

**MDL - Method Detection Limit** 

**MQL - Method Quantitation Limit** 

K00002167002

**Project Name:** 

**Sample Description:** 

Emory River mile 2.1

Sampler Project Name: TVA Ash Spill

**Project Site No.:** 

**Station No.:** EMORY002.1RO **Date/Time Collected:** 

Sampler's Name:

02/17/2009 10:05

County:

Justin Fisher ROANE - 73

Sample Matrix:

Water

EFO:

Knoxville

Sampling Agency:

TDEC-WPC

**Billing Code:** Send Report To: 327.34-20 **TDEC-WPC** 

Agency Invoiced:

TDEC-WPC

**Priority Date:** 

Date/Time Received:

02/17/2009 15:05

Received By:

E McCrary

**Field Determinations** 

pH:

7.12

pH Units

**uMHO** 

Chlorine, residual: Conductivity: Temperature:

70 6.09

Dissolved Oxygen: 12.53 mg/L

Other:

Flow:

**CFS** 

TEST: Alkalinity, Total	WE.					
ANALYTE	RESULT	UNITS	MDL	MQL ANALYZED BY:	DATE	
Total Alkalinity	16	mg/L	3.8	10	M Chen	2/18/2009

TEST: Hardness, Calcium	METHOD: SM 3500-Ca D					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	28	mg/L	0.7	1	P Leathers	2/18/2009

TEST: Residue, Settleable	METHOD: SM 2540F						
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
Settleable Residue	U	ml/L	0.10	0.10	M Chen	2/18/2009	

TEST: Residue, Suspended	METHOD: SM 2540D					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peeples	2/17/2009

J - Estimated value between MDL and MQL

**MDL - Method Detection Limit** 

**MQL - Method Quantitation Limit** 

K00002167003

**Project Name:** 

Sample Description:

Emory River mile 1.7

Sampler Project Name: TVA Ash Spill

**Project Site No.:** 

**Station No.:** 

EMORY001.7RO

Date/Time Collected: Sampler's Name:

02/17/2009 10:23

County:

Justin Fisher ROANE - 73

Sample Matrix:

Water

EFO:

Knoxville

Sampling Agency: **Billing Code:** Send Report To:

TDEC-WPC 327.34-20 **TDEC-WPC** 

Agency Invoiced:

TDEC-WPC

**Priority Date:** 

Date/Time Received:

02/17/2009

15:05

Received By:

E McCrary

**Field Determinations** 

pH:

8.00

pH Units

Chlorine, residual:

Conductivity:

263 7.91 **uMHO** 

Temperature: Dissolved Oxygen: 12.94

mg/L

Other:

Flow:

**CFS** 

TEST: Alkalinity, Total METHOD: EPA 310.2							
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
Total Alkalinity	110	mg/L	3.8	10	M Chen	2/18/2009	

TEST: Hardness, Calcium METHOD: SM 3500-Ca D						
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	98	mg/L	0.7	1	P Leathers	2/18/2009

TEST: Residue, Settleable METHOD: SM 2540F							
ANALYTE	RESULT UNITS MDL MQL ANALY					BY: DATE	
Settleable Residue	U	ml/L	0.10	0.10	M Chen	2/18/2009	

TEST: Residue, Suspended	ME:					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peeples	2/17/2009

J - Estimated value between MDL and MQL

**MDL - Method Detection Limit** 

**MQL - Method Quantitation Limit** 

K00002167004

**Project Name:** 

Sample Description:

Emory River mile 0.1

Sampler Project Name: TVA Ash Spill

Project Site No.: Station No.:

EMORY000.1RO

Date/Time Collected:

02/17/2009 10:45

Sampler's Name: County:

Justin Fisher ROANE - 73

Sample Matrix:

Water

EFO: Sampling Agency: Knoxville TDEC-WPC

**Billing Code:** Send Report To: 327.34-20 **TDEC-WPC** 

TDEC-WPC

Agency Invoiced: **Priority Date:** 

Date/Time Received:

02/17/2009

15:05

Received By:

E McCrary

**Field Determinations** 

pH:

8.04

pH Units

Chlorine, residual:

Conductivity:

263 8.18 **uMHO** 

mg/L

Temperature:

Dissolved Oxygen: 13.10

Other:

Flow:

**CFS** 

TEST: Alkalinity, Total	ME	THOD: EPA 31				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	120	mg/L	3.8	10	M Chen	2/18/2009

TEST: Hardness, Calcium	METHOD: SM 3500-Ca D					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	100	mg/L	0.7	1	P Leathers	2/18/2009

TEST: Residue, Settleable	METHOD: SM 2540F					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	M Chen	2/18/2009

TEST: Residue, Suspended	METHOD: SM 2540D					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peeples	2/17/2009

J - Estimated value between MDL and MQL

**MDL - Method Detection Limit** 

**MQL - Method Quantitation Limit** 

K00002167005

**Project Name:** 

Sample Description:

Clinch River mile 2.3 near Hwy 70 bridge

Sampler Project Name: TVA Ash Spill

**Project Site No.:** 

**Station No.:** 

Date/Time Collected:

CLINC002.3RO

Sampler's Name:

02/17/2009 11:05

County: Sample Matrix: Justin Fisher **ROANE - 73** 

EFO:

Water Knoxville

Sampling Agency:

TDEC-WPC 327.34-20

**Billing Code:** Send Report To: Agency Invoiced:

TDEC-WPC TDEC-WPC

**Priority Date:** 

Date/Time Received:

02/17/2009 15:05

Received By:

E McCrary

**Field Determinations** 

pH:

7.98

pH Units

Chlorine, residual:

Conductivity: Temperature: 204 9.78

**Dissolved Oxygen: 12.68** 

mg/L

uMH0

Other:

Flow:

**CFS** 

TEST: Alkalinity, Total	ME					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	120	mg/L	3.8	10	M Chen	2/18/2009

TEST: Hardness, Calcium	MET					
ANALYTE	RESULT	UNITS	MDL.	MQL	ANALYZED BY:	DATE
Calcium hardness	98	mg/L	0.7	1	P Leathers	2/18/2009

TEST: Residue, Settleable	METHOD: SM 2540F						
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
Settleable Residue	U	ml/L	0.10	0.10	M Chen	2/18/2009	

TEST: Residue, Suspended	METHOD: SM 2540D					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peeples	2/17/2009

J - Estimated value between MDL and MQL

**MDL - Method Detection Limit** 

**MQL - Method Quantitation Limit** 

K00002167006

**Project Name: Sample Description:** 

Field Blank-Clinch River near Sugar Grove Valle Chlorine, residual:

Sampler Project Name: TVA Ash Spill

**Project Site No.:** 

Station No.:

CLINC004.5RO-FB

**Date/Time Collected:** 

02/17/2009 11:14

Sampler's Name: County:

Justin Fisher

**Sample Matrix:** 

ROANE - 73

EFO:

Water Knoxville

Sampling Agency: **Billing Code:** 

TDEC-WPC 327.34-20

Send Report To: Agency Invoiced:

TDEC-WPC TDEC-WPC

**Priority Date:** 

Date/Time Received:

02/17/2009

15:05

Received By:

E McCrary

TEST: Alkalinity, Total	WE.					
ANALYTE	RESULT UNITS M		MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	U	mg/L	3.8	10	M Chen	2/18/2009

**Field Determinations** 

Conductivity:

Temperature:

**Dissolved Oxygen:** 

**CFS** 

:Hq

Other:

Flow:

TEST: Hardness, Calcium	METHOD: SM 3500-Ca D					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	U	mg/L	0.7	1	P Leathers	2/18/2009

TEST: Residue, Settleable	METHOD: SM 2540F						
ANALYTE	RESULT	MDL	MQL	ANALYZED BY:	DATE		
Settleable Residue	U	ml/L	0.10	0.10	M Chen	2/18/2009	

TEST: Residue, Suspended	ME.					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peeples	2/17/2009

J - Estimated value between MDL and MQL

**MDL - Method Detection Limit MQL - Method Quantitation Limit** 

K00002167007

**Project Name:** 

pH:

**Field Determinations** 

Dissolved Oxygen: 13.08

Conductivity:

Temperature:

Other:

Flow:

8.05

263

8.37

pH Units

**uMHO** 

mg/L

**CFS** 

Sample Description: Clinch River m Sampler Project Name: TVA Ash Spill

Clinch River mile 4.5 near Sugar Grove Valley F Chlorine, residual:

Project Site No.:

6

Station No.:

CLINC004.5RO

Date/Time Collected:

02/17/2009 11:17

Sampler's Name:

Justin Fisher

County:

ROANE - 73

Sample Matrix: EFO:

Water

Sampling Agency:

Knoxville

Billing Code: Send Report To: TDEC-WPC 327.34-20

Agency Invoiced:

TDEC-WPC

**Priority Date:** 

Date/Time Received:

02/17/2009

15:05

Received By:

E McCrary

TEST: Alkalinity, Total	ME <sup>-</sup>	THOD: EPA 31	0.2			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	120	mg/L	3.8	10	M Chen	2/18/2009

TEST: Hardness, Calcium	ME	THOD: SM 350	0-Ca D			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	96	mg/L	0.7	1	P Leathers	2/18/2009

TEST: Residue, Settleable	WE.	THOD: SM 254	0F					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE		
Settleable Residue	U	ml/L	0.10	0.10	M Chen	2/18/2009		

TEST: Residue, Suspended	WE	THOD: SM 254	0D			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peeples	2/17/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

**MQL - Method Quantitation Limit** 

K00002167008

**Project Name:** 

Duplicate-Clinch River near Sugar Grove Valley Chlorine, residual:

Sample Description: Sampler Project Name: TVA Ash Spill

**Field Determinations** 

Dissolved Oxygen: 13.09

Conductivity:

Temperature:

8.05

263

8.30

pH Units

**uMHO** 

mg/L

**CFS** 

pH:

Other:

Flow:

**Project Site No.:** 

**Station No.:** 

CLINC004.5RO-FD

Date/Time Collected: Sampler's Name:

02/17/2009 11:20

County:

Justin Fisher **ROANE - 73** 

Sample Matrix: EFO:

Water

Sampling Agency:

Knoxville

**Billing Code:** Send Report To: TDEC-WPC 327.34-20 TDEC-WPC

Agency Invoiced:

TDEC-WPC

**Priority Date:** 

Date/Time Received:

02/17/2009 15:05

Received By:

E McCrary

TEST: Alkalinity, Total	METHOD: EPA 310.2					
ANALYTE	RESULT UNITS		MDL MQL		ANALYZED BY:	DATE
Total Alkalinity	120	mg/L	3.8	10	M Chen	2/18/2009

TEST: Hardness, Calcium	ME	THOD: SM 350	0-Ca D			
ANALYTE	RESULT	UNITS MDL		MQL	ANALYZED BY:	DATE
Calcium hardness	100	mg/L	0.7	1	P Leathers	2/18/2009

TEST: Residue, Settleable	ME	THOD: SM 254	0F			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	M Chen	2/18/2009

TEST: Residue, Suspended	ME:	THOD: SM 254	0D			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peeples	2/17/2009

J - Estimated value between MDL and MQL

**MDL - Method Detection Limit MQL - Method Quantitation Limit** 



## STATE OF TENNESSEE DEPARTMENT OF HEALTH ENVIRONMENTAL LABORATORIES

TDH: Lab Services JRL Lab Services - Jackson Regional Lab Jackson, TN 38301 731-426-0686 TDH: Lab Services KRL Lab Services - Knoxville Regional Lab Knoxville, TN 37920 865-549-5201 TDH: Lab Services NCL Lab Services - Nashville Central Lab Nashville, TN 37243 615-262-6300

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TDEC-WPC

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Nashville, TN 37243-1534

Michael Atchley TDEC-WPC

Knoxville FO

3711 Middlebrook Pike Knoxville, TN 37921 Lab ID: K00002167

Knoxville Regional Laboratory

Sampling Agency: TDEC: Division of Water Pollution Control

**Billing Code:** 327.34-20

This is to certify that the following results were determined using good laboratory pratices and in accordance with federal or state approved methodologies.

Analytical Supervisor

K00002167001

**Project Name:** 

Sample Description:

Emory River mile 12.1

Sampler Project Name: TVA Ash Spill

**Project Site No.:** 

Station No.: Date/Time Collected: EMORY012.1RO

Sampler's Name:

02/17/2009 10:15 Justin Fisher

County:

ROANE - 73

Sample Matrix:

Water

EFO: Sampling Agency: Knoxville

**Billing Code:** Send Report To: TDEC-WPC 327.34-20 TDEC-WPC

Agency Invoiced:

TDEC-WPC

**Priority Date:** 

Date/Time Received:

02/17/2009 15:05

Received By:

E McCrary

**Field Determinations** 

pH:

7.66

pH Units

uMHO

Chlorine, residual:

Conductivity:

55

Temperature: 8.13 Dissolved Oxygen: 12.38

mg/L

Other:

Flow:

**CFS** 

TEST: Digestion Metals	MET	HOD: EPA 20	0.2			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	02/19/2009	,			A Bass	2/19/2009

TEST: ICP	MET	THOD: EPA 20	0.7			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	100	μg/L	2.9	10	A Bass	2/19/2009

TEST: ICP-MS	ME	ΓHOD: EPA 20	0.8			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	55	μg/L	6.4	10	M Pattanayek	2/19/2009
Antimony	U	μg/L	0.33	1	M Pattanayek	2/19/2009
Arsenic	U	μg/L	0.93	5	M Pattanayek	2/19/2009
Barium	25	μg/L	2.5	5	M Pattanayek	2/19/2009
Beryllium	υ	μg/L	0.11	1	M Pattanayek	2/19/2009
Cadmium	U	μg/L	0.41	1	M Pattanayek	2/19/2009
Chromium	2.7J	μg/L	2.0	5	M Pattanayek	2/19/2009
Cobalt	0.21J	μg/L	0.04	1	M Pattanayek	2/19/2009
Copper	0.75J	μg/L	0.38	1	M Pattanayek	2/19/2009
Lead	0.11J	μg/L	0.10	1	M Pattanayek	2/19/2009
Manganese	25	μg/L	0.42	1	M Pattanayek	2/19/2009
Nickel	1.3	μg/L	0.25	1	M Pattanayek	2/19/2009
Selenium	U	μg/L	1.3	5	M Pattanayek	2/19/2009
Silver	U	μg/L	0.03	0.25	M Pattanayek	2/19/2009
Thallium	1.5	μg/L	0.03	1	M Pattanayek	2/19/2009
Vanadium	U	μg/L	3.4	5	M Pattanayek	2/19/2009
Zinc	6.1	μg/L	1.9	5	M Pattanayek	2/19/2009

K00002167001

**Project Name:** 

Sample Description:

Emory River mile 12.1

Sampler Project Name: TVA Ash Spill

**Project Site No.:** 

Station No.:

EMORY012.1RQ

Date/Time Collected:

02/17/2009 10:15

Sampler's Name: County:

Justin Fisher ROANE - 73

Sample Matrix:

Water

EFO: Sampling Agency:

Date/Time Received:

Knoxville TDEC-WPC

**Billing Code:** Send Report To: Agency Invoiced: 327.34-20 TDEC-WPC TDEC-WPC

**Priority Date:** 

02/17/2009

15:05

Received By:

E McCrary

**Field Determinations** 

:Ha

7.66

pH Units

Chlorine, residual:

Conductivity:

55

uMHO

Temperature: Dissolved Oxygen: 12.38

8.13

mg/L

Other:

Flow:

CFS

METHOD: EPA 245.1	PA 245.1	/IETHO	lercury M	TEST: Mercury
RESULT UNITS MDL MQL ANALYZED BY: DAT	TS MD		E RESULT	ANALYTE
U μg/L 0.13 0.2 A Wilson 2/17/20	g/L 0.1		U	Mercury
U μg/L 0.13 0.2 A Wilson	g/L 0.13		U	Mercury

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

K00002167002

**Project Name:** 

Sample Description:

Date/Time Collected:

Emory River mile 2.1

Sampler Project Name: TVA Ash Spill

**Project Site No.:** Station No.:

EMORY002.1RO

Sampler's Name:

02/17/2009 10:05

County:

Justin Fisher ROANE - 73

Sample Matrix:

Water

EFO: Sampling Agency: Knoxville TDEC-WPC

Billing Code: Send Report To: Agency Invoiced: 327.34-20 TDEC-WPC

**Priority Date:** 

TDEC-WPC

Date/Time Received:

02/17/2009 15:05

Received By:

E McCrary

**Field Determinations** 

pH:

7.12

pH Units

Chlorine, residual:

Conductivity:

70

uMHO

mg/L

Temperature:

6.09

Dissolved Oxygen: 12.53

Other:

Flow:

**CFS** 

TEST: Digestion Metals	METHOD: EPA 200.2						
ANALYTE	RESULT UNITS MDL MQL				ANALYZED BY:	DATE	
Digestion Metals	02/19/2009				A Bass	2/19/2009	

TEST: ICP	METHOD: EPA 200.7							
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE		
Iron	220	μg/L	2.9	10	A Bass	2/19/2009		

TEST: ICP-MS	ME	THOD: EPA 20	0.8			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	180	μg/L	6.4	10	M Pattanayek	2/19/2009
Antimony	U	μg/L	0.33	1	M Pattanayek	2/19/2009
Arsenic	U	μg/L	0.93	5	M Pattanayek	2/19/2009
Barium	28	μg/L	2.5	5	M Pattanayek	2/19/2009
Beryllium	U	μg/L	0.11	1	M Pattanayek	2/19/2009
Cadmium	U	μg/L	0.41	1	M Pattanayek	2/19/2009
Chromium	2.4J	μg/L	2.0	5	M Pattanayek	2/19/2009
Cobalt	0.32J	μg/L	0.04	1	M Pattanayek	2/19/2009
Copper	0.50J	μg/L	0.38	1	M Pattanayek	2/19/2009
Lead	0.20J	μg/L	0.10	1	M Pattanayek	2/19/2009
Manganese	61	μg/L	0.42	1	M Pattanayek	2/19/2009
Nickel	1.3	μg/L	0.25	1	M Pattanayek	2/19/2009
Selenium	U	μg/L	1.3	5	M Pattanayek	2/19/2009
Silver	U	μg/L	0.03	0.25	M Pattanayek	2/19/2009
Thallium	0.54J	μg/L	0.03	1	M Pattanayek	2/19/2009
Vanadium	9.8	μg/L	3.4	5	M Pattanayek	2/19/2009
Zinc	4.7J	μg/L	1.9	5	M Pattanayek	2/19/2009

K00002167002

**Project Name:** 

Sample Description:

Emory River mile 2.1

Sampler Project Name: TVA Ash Spill

Project Site No.:

Station No.:

EMORY002.1RO

Date/Time Collected:

02/17/2009 10:05

Sampler's Name:

Justin Fisher

County:

ROANE - 73

Sample Matrix: EFO:

Water

Sampling Agency:

Knoxville

**Billing Code:** Send Report To: TDEC-WPC 327.34-20 TDEC-WPC

Agency Invoiced:

TDEC-WPC

**Priority Date:** 

Date/Time Received:

02/17/2009

15:05

Received By:

TEST: Mercury

E McCrary

ME.	THOD:	FΡΔ	245 1	

**Field Determinations** 

Dissolved Oxygen: 12.53

Chlorine, residual:

Conductivity:

Temperature:

7.12

70

6.09

pH Units

uMHO

mg/L

**CFS** 

pH:

Other:

Flow:

ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	U	μg/L	0.13	0.2	A Wilson	2/17/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

K00002167003

**Project Name:** 

Sample Description: Emory River mile 1.7

Sampler Project Name: TVA Ash Spill

**Project Site No.:** 

3

Station No.: Date/Time Collected: EMORY001.7RO

Sampler's Name:

02/17/2009 10:23

County:

Justin Fisher ROANE - 73

Sample Matrix: EFO:

Water Knoxville

Sampling Agency: **Billing Code:** 

TDEC-WPC 327.34-20 TDEC-WPC

Send Report To: Agency Invoiced:

TDEC-WPC

**Priority Date:** 

Date/Time Received: 02/17/2009 15:05

Received By:

E McCrary

**Field Determinations** 

pH: 8.00

Chlorine, residual:

263 Conductivity: uMHQ

pH Units

Temperature: 7.91

Dissolved Oxygen: 12.94 mg/L

Other:

Flow: **CFS** 

TEST: Digestion Metals	METHOD: EPA 200.2						
ANALYTE	RESULT	ANALYZED BY:	DATE				
Digestion Metals	02/19/2009				A Bass	2/19/2009	

TEST: ICP	METHOD: EPA 200.7							
ANALYTE	RESULT UNITS MDL MQL ANALYZED BY: DAT							
Iron	170	μg/L	2.9	10	A Bass	2/19/2009		

TEST: ICP-MS	ME	ΓHOD: EPA 20	0.8 、				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
Aluminum	180	μg/L	6.4	10	M Pattanayek	2/19/2009	
Antimony	U	μg/L	0.33	1	M Pattanayek	2/19/2009	
Arsenic	U	μg/L	0.93	5	M Pattanayek	2/19/2009	
Barium	39	μg/L	2.5	5	M Pattanayek	2/19/2009	
Beryllium	U	μg/L	0.11	1	M Pattanayek	2/19/2009	
Cadmium	U	μg/L	0.41	1	M Pattanayek	2/19/2009	
Chromium	U	μg/L	2.0	5	M Pattanayek	2/19/2009	
Cobalt	0.21J	μg/L	0.04	1	M Pattanayek	2/19/2009	
Copper	1.2	μg/L	0.38	1	M Pattanayek	2/19/2009	
Lead	0.27J	μg/L	0.10	1	M Pattanayek	2/19/2009	
Manganese	28	μg/L	0.42	1	M Pattanayek	2/19/2009	
Nickel	1.6	μg/L	0.25	1	M Pattanayek	2/19/2009	
Selenium	U	μg/L	1.3	5	M Pattanayek	2/19/2009	
Silver	U	μg/L	0.03	0.25	M Pattanayek	2/19/2009	
Thallium	0.31J	μg/L	0.03	1	M Pattanayek	2/19/2009	
Vanadium	4.4J	μg/L	3.4	5	M Pattanayek	2/19/2009	
Zinc	3.6J	μg/L	1.9	5	M Pattanayek	2/19/2009	

K00002167003

**Project Name:** 

Sample Description:

Emory River mile 1.7

Sampler Project Name: TVA Ash Spill

**Project Site No.:** 

Station No.: **Date/Time Collected:**  EMORY001.7RO 02/17/2009 10:23

Sampler's Name:

Justin Fisher

County:

ROANE - 73

Sample Matrix: EFO:

Water

Sampling Agency:

Knoxville

**Billing Code:** 

TDEC-WPC 327.34-20 TDEC-WPC

Send Report To: Agency Invoiced:

TDEC-WPC

**Priority Date:** 

Date/Time Received:

02/17/2009 15:05

Received By:

E McCrary

**Field Determinations** 

pH:

8.00

pH Units

Chlorine, residual:

Conductivity:

263

uMHO

Temperature:

7.91

**Dissolved Oxygen: 12.94** 

mg/L

Other:

Flow:

**CFS** 

TEST: Mercury	METHOD: EPA 245.1							
ANALYTE	RESULT UNITS MDL MQL ANALYZED							
Mercury	U	µg/L	0.13	0.2	A Wilson	2/17/2009		

J - Estimated value between MDL and MQL

MDL - Method Detection Limit MQL - Method Quantitation Limit

K00002167004

**Project Name:** 

Sample Description: Emory River mile 0.1 Sampler Project Name: TVA Ash Spill

**Project Site No.:** 

Station No.: Date/Time Collected: EMORY000.1RO

Sampler's Name:

02/17/2009 10:45 Justin Fisher

County: Sample Matrix: ROANE - 73

EFO: Sampling Agency: Water Knoxville

**Billing Code:** Send Report To: TDEC-WPC 327.34-20 TDEC-WPC

Agency Invoiced:

TDEC-WPC

**Priority Date:** 

Date/Time Received:

02/17/2009 15:05

Received By:

E McCrary

**Field Determinations** 

pH:

Chlorine, residual:

Conductivity:

263

8.04

**uMHO** 

pH Units

Temperature:

8.18 Dissolved Oxygen: 13.10

mg/L

Other:

Flow:

**CFS** 

TEST: Digestion Metals	METHOD: EPA 200.2						
ANALYTE	RESULT	ANALYZED BY:	DATE				
Digestion Metals	02/19/2009				A Bass	2/19/2009	

TEST: ICP	METHOD: EPA 200.7							
ANALYTE	RESULT UNITS MDL MQL ANALYZED BY: DA							
Iron	160	μg/L	2.9	10	A Bass	2/19/2009		

TEST: ICP-MS	ME	THOD: EPA 20	0.8			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	170	μg/L	6.4	10	M Pattanayek	2/19/2009
Antimony	U	μg/L	0.33	1	M Pattanayek	2/19/2009
Arsenic	U	μg/L	0.93	5	M Pattanayek	2/19/2009
Barium	38	μg/L	2.5	5	M Pattanayek	2/19/2009
Beryllium	U	μg/L	0.11	1	M Pattanayek	2/19/2009
Cadmium	U	μg/L	0.41	1	M Pattanayek	2/19/2009
Chromium	U	μg/L	2.0	5	M Pattanayek	2/19/2009
Cobalt	0.21J	μg/L	0.04	1	M Pattanayek	2/19/2009
Copper	1.1	μg/L	0.38	1	M Pattanayek	2/19/2009
Lead	0.22J	μg/L	0.10	1	M Pattanayek	2/19/2009
Manganese	30	μg/L	0.42	1	M Pattanayek	2/19/2009
Nickel	1.6	μg/L	0.25	1	M Pattanayek	2/19/2009
Selenium	U	μg/L	1.3	5	M Pattanayek	2/19/2009
Silver	.U	μg/L	0.03	0.25	M Pattanayek	2/19/2009
Thallium	0.20J	μg/L	0.03	1	M Pattanayek	2/19/2009
Vanadium	U	μg/L	3.4	5	M Pattanayek	2/19/2009
Zinc	3.0J	µg/L	1.9	5	M Pattanayek	2/19/2009

K00002167004

**Project Name:** 

Sample Description:

Emory River mile 0.1

Sampler Project Name: TVA Ash Spill

**Project Site No.:** 

Station No.:

EMORY000.1RO

Date/Time Collected:

10:45 02/17/2009

Sampler's Name: County:

Justin Fisher

Sample Matrix:

ROANE - 73

EFO:

Water

Sampling Agency:

Knoxville

Billing Code:

TDEC-WPC

Send Report To: Agency Invoiced: 327.34-20 TDEC-WPC

**Priority Date:** 

TDEC-WPC

Date/Time Received:

02/17/2009 15:05

Received By:

E McCrary

**Field Determinations** 

:Hq

8.04

pH Units

Chlorine, residual:

Conductivity:

263

uMHQ

Temperature:

8.18

Dissolved Oxygen: 13.10

mg/L

Other:

Flow:

**CFS** 

TEST: Mercury METHOD: EPA 245.1							
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
Mercury	U	μg/L	0.13	0.2	A Wilson	2/17/2009	

J - Estimated value between MDL and MQL

MDL - Method Detection Limit MQL - Method Quantitation Limit

K00002167005

**Project Name:** 

Sample Description:

Clinch River mile 2.3 near Hwy 70 bridge

Sampler Project Name: TVA Ash Spill

**Project Site No.:** 

Station No.: CLINC002.3RO Date/Time Collected:

Sampler's Name:

02/17/2009 11:05 Justin Fisher

County:

ROANE - 73

Sample Matrix: EFO:

Water

Sampling Agency:

Knoxville TDEC-WPC

**Billing Code:** Send Report To: 327.34-20 TDEC-WPC

Agency Invoiced:

TDEC-WPC

**Priority Date:** 

Date/Time Received:

02/17/2009 15:05

Received By:

E McCrary

**Field Determinations** 

pH:

7.98

pH Units

uMHO

Chlorine, residual:

Conductivity:

204

Temperature: 9.78

Dissolved Oxygen: 12.68

mg/L

Other:

Flow:

**CFS** 

TEST: Digestion Metals	METHOD: EPA 200.2						
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
Digestion Metals	02/19/2009				A Bass	2/19/2009	

TEST: ICP	MET	THOD: EPA 20				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	180	μg/L	2.9	10	A Bass	2/19/2009

TEST: ICP-MS	ME	METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	180	μg/L	6.4	10	M Pattanayek	2/19/2009
Antimony	Ų	μg/L	0.33	1	M Pattanayek	2/19/2009
Arsenic	U	μg/L	0.93	5	M Pattanayek	2/19/2009
Barium	36	μg/L	2.5	5	M Pattanayek	2/19/2009
Beryllium	Ŭ	μg/L	0.11	1	M Pattanayek	2/19/2009
Cadmium	U	μg/L	0.41	1	M Pattanayek	2/19/2009
Chromium	U	μg/L	2.0	5	M Pattanayek	2/19/2009
Cobalt	0.23J	μg/L	0.04	1	M Pattanayek	2/19/2009
Copper	1.3	μg/L	0.38	1	M Pattanayek	2/19/2009
Lead	0.23J	μg/L	0.10	1	M Pattanayek	2/19/2009
Manganese	29	μg/L	0.42	1	M Pattanayek	2/19/2009
Nickel	1.8	μg/L	0.25	1	M Pattanayek	2/19/2009
Selenium	U	μg/L	1.3	5	M Pattanayek	2/19/2009
Silver	U	μg/L	0.03	0.25	M Pattanayek	2/19/2009
Thallium	0.12J	μg/L	0.03	1	M Pattanayek	2/19/2009
Vanadium	7.4	μg/L	3.4	5	M Pattanayek	2/19/2009
Zinc	2.9J	µg/L	1.9	5	M Pattanayek	2/19/2009

K00002167005

**Project Name:** 

Sample Description:

Clinch River mile 2.3 near Hwy 70 bridge

Sampler Project Name: TVA Ash Spill

**Project Site No.:** 

Station No.: Date/Time Collected: CLINC002.3RO 02/17/2009 11:05

Sampler's Name:

Justin Fisher

County:

ROANE - 73

Sample Matrix: EFO:

Water

Sampling Agency:

Knoxville

**Billing Code:** 

TDEC-WPC 327.34-20 TDEC-WPC

Send Report To: Agency Invoiced:

TDEC-WPC

**Priority Date:** 

Date/Time Received:

02/17/2009 15:05

Received By:

E McCrary

Other: Flow: **CFS** 

7.98

204

9.78

pH Units

uMHQ

mg/L

**Field Determinations** 

Dissolved Oxygen: 12.68

Chlorine, residual:

Conductivity:

Temperature:

pH:

TEST: Mercury	WE					
ANALYTE	RESULT	RESULT UNITS MDL		MQL	ANALYZED BY:	DATE
Mercury	U	μg/L	0.13	0.2	A Wilson	2/17/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

K00002167006

**Project Name:** Sample Description:

Field Blank-Clinch River near Sugar Grove Valle Chlorine, residual:

**Field Determinations** 

**Dissolved Oxygen:** 

**CFS** 

Conductivity:

Temperature:

pH:

Other:

Flow:

Sampler Project Name: TVA Ash Spill

Project Site No.:

Station No.:

CLINC004.5RO-FB

Date/Time Collected: Sampler's Name:

11:14 02/17/2009

County:

Justin Fisher

Sample Matrix:

ROANE - 73 Water

EFO: Sampling Agency: Knoxville TDEC-WPC

**Billing Code:** Send Report To: Agency Invoiced:

327.34-20 TDEC-WPC TDEC-WPC

**Priority Date:** 

Date/Time Received:

02/17/2009 15:05

Received By:

E McCrary

TEST: Digestion Metals	METHOD: EPA 200.2							
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE		
Digestion Metals	02/19/2009				A Bass	2/19/2009		

TEST: ICP METHOD: EPA 200.7							
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
Iron	64	μg/L	2.9	10	A Bass	2/19/2009	

TEST: ICP-MS	ME	METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	U	μg/L	6.4	10	M Pattanayek	2/19/2009
Antimony	U	μg/L	0.33	1	M Pattanayek	2/19/2009
Arsenic	U	μg/L	0.93	5	M Pattanayek	2/19/2009
Barium	U	μg/L	2.5	5	M Pattanayek	2/19/2009
Beryllium	U	μg/L	0.11	1	M Pattanayek	2/19/2009
Cadmium	U	μg/L	0.41	1	M Pattanayek	2/19/2009
Chromium	U	μg/L	2.0	5	M Pattanayek	2/19/2009
Cobalt	U	μg/L	0.04	1	M Pattanayek	2/19/2009
Copper	U	μg/L	0.38	1	M Pattanayek	2/19/2009
Lead	U	μg/L	0.10	1	M Pattanayek	2/19/2009
Manganese	U	μg/L	0.42	1	M Pattanayek	2/19/2009
Nickel	U	μg/L	0.25	1	M Pattanayek	2/19/2009
Selenium	U	μg/L	1.3	5	M Pattanayek	2/19/2009
Silver	U	μg/L	0.03	0.25	M Pattanayek	2/19/2009
Thallium	0.07J	μg/L	0.03	1	M Pattanayek	2/19/2009
Vanadium	9.4	μg/L	3.4	5	M Pattanayek	2/19/2009
Zinc	U	μg/L	1.9	5	M Pattanayek	2/19/2009

K00002167006

**Project Name:** 

Field Blank-Clinch River near Sugar Grove Valle Chlorine, residual:

**Sample Description:** Sampler Project Name: TVA Ash Spill

**Project Site No.:** 

Station No.:

CLINC004.5RO-FB

Date/Time Collected:

02/17/2009 11:14

Sampler's Name:

Justin Fisher

County: Sample Matrix: ROANE - 73

EFO:

Water Knoxville

Sampling Agency: **Billing Code:** 

TDEC-WPC 327.34-20

Send Report To: Agency Invoiced:

TDEC-WPC **TDEC-WPC** 

**Priority Date:** 

Date/Time Received:

02/17/2009

15:05

Received By:

E McCrary

TEST: Mercury METHOD: EPA 245.1						
RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
U	μg/L	0.13	0.2	A Wilson	2/17/2009	
		RESULT UNITS	RESULT UNITS MDL	RESULT UNITS MDL MQL	RESULT UNITS MDL MQL ANALYZED BY:	

**Field Determinations** 

Conductivity:

Temperature:

**Dissolved Oxygen:** 

**CFS** 

pH:

Other:

Flow:

J - Estimated value between MDL and MQL

MDL - Method Detection Limit MQL - Method Quantitation Limit

K00002167007

**Project Name:** 

**Field Determinations** 

Dissolved Oxygen: 13.08

Conductivity:

Temperature:

8.05

263

8.37

pH Units

**uMHO** 

mg/L

**CFS** 

pH:

Other:

Flow:

Sample Description: Sampler Project Name: TVA Ash Spill

Clinch River mile 4.5 near Sugar Grove Valley R Chlorine, residual:

**Project Site No.:** 

Station No.:

Date/Time Collected:

CLINC004.5RO

Sampler's Name:

11:17 02/17/2009

County:

Justin Fisher

Sample Matrix:

ROANE - 73

EFO:

Water

Sampling Agency:

Knoxville

**Billing Code:** 

TDEC-WPC 327,34-20

Send Report To: Agency invoiced:

TDEC-WPC TDEC-WPC

**Priority Date:** 

Date/Time Received:

02/17/2009

15:05

Received By:

E McCrary

TEST: Digestion Metals	METHOD: EPA 200.2						
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
Digestion Metals	02/19/2009				A Bass	2/19/2009	

TEST: ICP METHOD: EPA 200.7							
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
Iron	170	μg/L	2.9	10	A Bass	2/19/2009	

TEST: ICP-MS	MET	THOD: EPA 20	0.8			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	150	μg/L	6.4	10	M Pattanayek	2/19/2009
Antimony	2.4	μg/L	0.33	1	M Pattanayek	2/19/2009
Arsenic	U	μg/L	0.93	5	M Pattanayek	2/19/2009
Barium	37	μg/L	2.5	5	M Pattanayek	2/19/2009
Beryllium	U	μg/L	0.11	1	M Pattanayek	2/19/2009
Cadmium	U	μg/L	0.41	1	M Pattanayek	2/19/2009
Chromium	U	μg/L	2.0	5	M Pattanayek	2/19/2009
Cobalt	0.19J	μg/L	0.04	1	M Pattanayek	2/19/2009
Copper	1.6	μg/L	0.38	1	M Pattanayek	2/19/2009
Lead	0.25J	μg/L	0.10	1	M Pattanayek	2/19/2009
Manganese	28	μg/L	0.42	1	M Pattanayek	2/19/2009
Nickel	1.8	μg/L	0.25	1	M Pattanayek	2/19/2009
Selenium	U	μg/L	1.3	5	M Pattanayek	2/19/2009
Silver	0.31	μg/L	0.03	0.25	M Pattanayek	2/19/2009
Thallium	0.19J	μg/L	0.03	1	M Pattanayek	2/19/2009
Vanadium	7.6	μg/L	3.4	5	M Pattanayek	2/19/2009
Zinc	3.3J	μg/L	1.9	5	M Pattanayek	2/19/2009

Sample Description:

K00002167007

**Project Name:** 

Clinch River mile 4.5 near Sugar Grove Valley R Chlorine, residual:

Sampler Project Name: TVA Ash Spill

**Project Site No.:** 

Station No.: Date/Time Collected: CLINC004.5RO

Sampler's Name:

02/17/2009 11:17 Justin Fisher

County:

ROANE - 73

Sample Matrix:

Water

EFO: Sampling Agency: Knoxville

**Billing Code:** Send Report To: TDEC-WPC 327.34-20 TDEC-WPC

Agency Invoiced:

TDEC-WPC

**Priority Date:** 

Date/Time Received:

02/17/2009

15:05

Received By:

TEST: Mercury

E McCrary

METHOD:	EPA	245.1	

**Field Determinations** 

Dissolved Oxygen: 13.08

Conductivity:

Temperature:

8.05

263

8.37

pH:

Other:

Flow:

pH Units

uMHO

mg/L

**CFS** 

ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	U	μg/L	0.13	0.2	A Wilson	2/17/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit **MQL - Method Quantitation Limit** 

K00002167008

**Project Name:** 

Duplicate-Clinch River near Sugar Grove Valley Chlorine, residual:

**Field Determinations** 

Dissolved Oxygen: 13.09

Conductivity:

Temperature:

8.05

263

8.30

pH:

Other: Flow:

pH Units

uMHQ

mg/L

**CFS** 

Sample Description: Sampler Project Name: TVA Ash Spill

**Project Site No.:** 

**Station No.:** 

CLINC004.5RO-FD

**Date/Time Collected:** 

02/17/2009 11:20

Sampler's Name:

Justin Fisher

County:

ROANE - 73

Sample Matrix: EFO:

Water

Sampling Agency:

Knoxville TDEC-WPC

**Billing Code:** Send Report To: 327.34-20 TDEC-WPC

Agency Invoiced:

TDEC-WPC

**Priority Date:** 

Date/Time Received:

02/17/2009 15:05

Received By:

E McCrary

TEST: Digestion Metals	METHOD: EPA 200.2					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	02/19/2009				A Bass	2/19/2009

TEST: ICP	METHOD: EPA 200.7					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	170	μg/L	2.9	10	A Bass	2/19/2009

TEST: ICP-MS	METHOD: EPA 200.8					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	150	μg/L	6.4	10	M Pattanayek	2/19/2009
Antimony	U .	μg/L	0.33	1	M Pattanayek	2/19/2009
Arsenic	U	μg/L	0.93	5	M Pattanayek	2/19/2009
Barium	37	μg/L	2.5	- 5	M Pattanayek	2/19/2009
Beryllium	U	μg/L	0.11	1	M Pattanayek	2/19/2009
Cadmium	U	μg/L	0.41	1	M Pattanayek	2/19/2009
Chromium	U	μg/L	2.0	5	M Pattanayek	2/19/2009
Cobalt	0.19J	μg/L	0.04	1	M Pattanayek	2/19/2009
Copper	1.3	μg/L	0.38	1	M Pattanayek	2/19/2009
Lead	0.23J	μg/L	0.10	1	M Pattanayek	2/19/2009
Manganese	27	μg/L	0.42	1	M Pattanayek	2/19/2009
Nickel	1.6	μg/L	0.25	1	M Pattanayek	2/19/2009
Selenium	U	μg/L	1.3	5	M Pattanayek	2/19/2009
Silver	U	μg/L	0.03	0.25	M Pattanayek	2/19/2009
Thallium	0.06J	μg/L	0.03	1	M Pattanayek	2/19/2009
Vanadium	9.6	μg/L	3.4	5	M Pattanayek	2/19/2009
Zinc	2.6J	μg/L	1.9	5	M Pattanayek	2/19/2009

K00002167008

**Project Name:** 

Sample Description:

Duplicate-Clinch River near Sugar Grove Valley Chlorine, residual:

Sampler Project Name: TVA Ash Spill

**Project Site No.:** 

Station No.:

CLINC004.5RO-FD 11:20

Sampler's Name:

**Date/Time Collected:** 

02/17/2009 Justin Fisher

County:

ROANE - 73

Sample Matrix: EFO:

Water

Sampling Agency: **Billing Code:** 

Knoxville TDEC-WPC 327.34-20

Send Report To: Agency Invoiced:

TDEC-WPC **TDEC-WPC** 

**Priority Date:** 

Date/Time Received:

02/17/2009 15:05

Received By:

E McCrary

TEST: Mercury	METHOD: EPA 245.1					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	U	μg/L	0.13	0.2	A Wilson	2/17/2009

**Field Determinations** 

Dissolved Oxygen: 13.09

Conductivity:

Temperature:

8.05

263

8.30

pH Units

uMHO

mg/L

**CFS** 

pH:

Other:

Flow:

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit